

TITLE
PROCESS FOR THE PRODUCTION OF
NANO-SIZED ZEOLITE A

ABSTRACT

5 Described is a process to synthesize nano-size Zeolite A from an
amorphous gel precursor which can be synthesized via reaction of
NaAlO₂, NaOH, and tetraethoxysilane (TEOS). Zeolite A with particle sizes
of ~ 150 nm was made by transformation of the amorphous precursor in
(CH₃)₄NOH solution with Zeolite A seeding. The nano-sized Zeolite A can
10 be part of processes for making non-phosphate detergent where the as-
synthesized Zeolite A used as builders, for making thin films for separation
and/or catalysis, for making secondary ordered patterns.

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BCS/dmm